UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,317	04/12/2007	Hideki Hiraoka	060657	7006
	7590 08/03/201 T <b>OS &amp; HANSON</b> , LL	EXAMINER		
1420 K Street, N.W. 4th Floor			THOMAS, BRENT C	
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			08/03/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Symmetry	10/593,317	HIRAOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	BRENT THOMAS	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	_· action is non-final.					
<i>7</i> —	/ <del></del>					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under Ex pane Quayle, 1935 C.D. 11, 455 C.G. 215.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.	)⊠ Claim(s) <u>1-13</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:  1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	·					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO/SB/08)   Notice of Informal Patent Application   Paper No(s)/Mail Date 9/18/06, 11/13/07, 8/14/08.   5)   Notice of Informal Patent Application   Other:						

Application/Control Number: 10/593,317 Page 2

Art Unit: 1795

## **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamaguchi et al. (EP 1,487,041) which is used as a translation of the previously published (9/12/2003) WO 03/075386 A.
- 4. With regard to claim 1, Yamaguchi teaches an electrolyte membrane comprising a porous substrate filled with an electrolyte polymer [0009]. Yamaguchi does not teach the electrolyte membrane having a ratio of the maximum value to the minimum value of the ionic conductivity (in plane) of no greater than 1.5. However since Yamaguchi teaches biaxial drawing with an equal draw in each direction [0046] the electrolyte membrane of Yamaguchi should inherently exhibit the claimed property. A reference

Art Unit: 1795

which is silent about a claimed invention's features is inherently anticipatory if the missing feature *is necessarily present in that which is described in the reference*. <u>In re Robertson</u>, 49 USPQ2d 1949 (1999).

5. Claims 2, 3, and 5 are considered product by process claims for the purposes of examination.

As to ANY method limitation or order of steps recited in the present claims, it is noted that a method limitation incorporated into a product claim does not patentable distinguish the product because what is given patentably consideration is the product itself and not the manner in which the product was made. Therefore, the patentability of a product is independent of how it was made. As a result, the process steps of a product-by-process claim do not impart any significant property or structure to the claimed end product. And, if there is any different, the difference would have been minor and obvious. Determination of patentability of a product-by-process claim is based on the scope of the product itself. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product by process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process."

In re Thorpe 777 F.2d 695, 698, 227 USPQ 964,966 (Fed Cir. 1985) and MPEP 2113.

Application/Control Number: 10/593,317 Page 4

Art Unit: 1795

6. With regard to claims 2, 3 and 5, Yamaguchi teaches a biaxially extending (drawing) a membrane containing polyethylene 3.5 x 3.5 times (a ratio of 1) which would read on the claimed range [0046-0047].

- 7. With regard to claim 4, Yamaguchi teaches that the porous substrate may comprise a polyolefin [0009] and may be crosslinked [0015].
- 8. With regard to claim 6, Yamaguchi teaches the thickness of the substrate is less than 100 µm which falls within the claimed range.
- 9. With regard to claims 7 and 8, Yamaguchi teaches an ion-exchange polymer [0030-0031] that may have a sulfonic acid group or phosphoric acid group [0034].
- 10. With regard to claims 9 and 10, Yamaguchi teaches the monomer may contain vinylsulfonic acid or vinylphosphonic acid [0034].
- 11. With regard to claim 11, Yamaguchi teaches 2-acrylamido-2-methylpropanesulfonic acid [0062].
- 12. With regard to claims 12 and 13, Yamaguchi teaches the membrane may be used in a direct methanol fuel cell [0009].

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRENT THOMAS whose telephone number is (571)270-7737. The examiner can normally be reached on Monday - Thursday, 9:00am-6:00pm (est.).

Application/Control Number: 10/593,317 Page 5

Art Unit: 1795

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, PATRICK RYAN can be reached on (571)272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BT

/PATRICK RYAN/ Supervisory Patent Examiner, Art Unit 1795